

Description: 2012 LB/ JB-HB Diplexer

PART NUMBER: DPX2012LKGG0920L

Features:

- Compact Size
- Low loss
- High Soldering Heat Resistance

Applications:

- For LTE application.

ELECTRICAL SPECIFICATIONS

Low-Band

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	699~960	-	0.64	0.75
Return Loss (dB)	699~960	10.0	16.4	-
Attenuation (dB)	1427~2690	25.0	29.7	-

High-Band

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	1427~1496	-	0.62	0.75
	1710~1995	-	0.44	0.60
	2010~2690	-	0.52	0.65
Return Loss (dB)	1427~1496	10.0	21.9	-
	1710~1995	10.0	20.8	-
	2010~2690	10.0	21.5	-
Attenuation (dB)	699~915	20.0	22.7	-
	915~960	17.0	22.7	-
	3420~3820	3.0	5.6	-

Common

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Return Loss (dB)	699~960	10.0	18.5	-
	1427~1496	10.0	22.0	-
	1710~1995	10.0	20.7	-
	2010~2690	10.0	21.1	-

Isolation

Item	Frequency Range(MHz)	Min.	Typ.	Max.
High to Low (dB)	699~915	20.0	22.4	-
	915~960	17.0	24.1	-
	1427~1496	25.0	33.3	-
	1710~2690	25.0	32.2	-

Operating Temperature Range : -40~85°C

Power Capacity : 3W max.

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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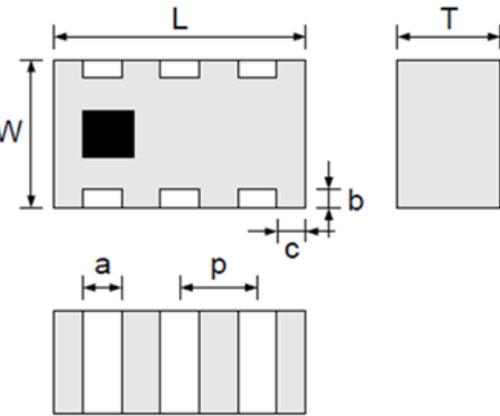


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MECHANICAL DIMENSION

Outline

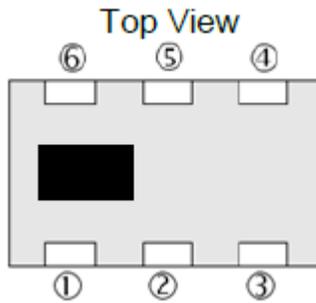


Dimension

L	W	T	a
2.00±0.15	1.25±0.15	0.90±0.10	0.30±0.15
b	c	p	
0.20±0.15	0.20±0.15	0.65±0.15	

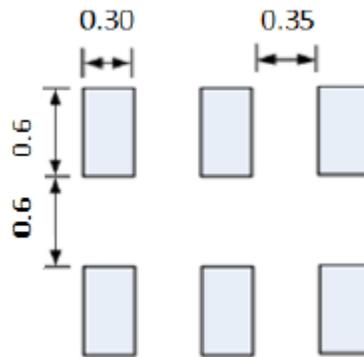
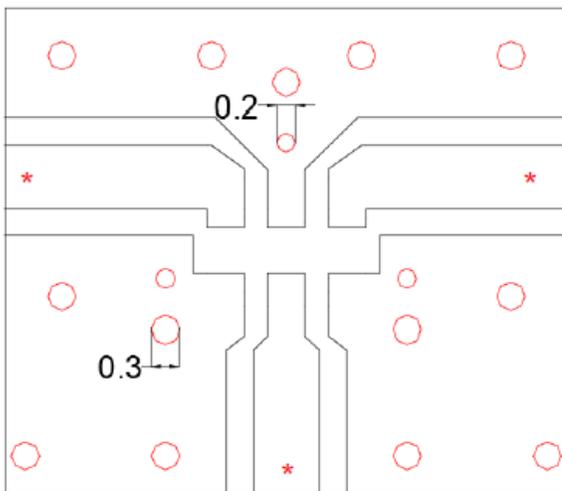
NOTE : Dimensions in mm.

Termination

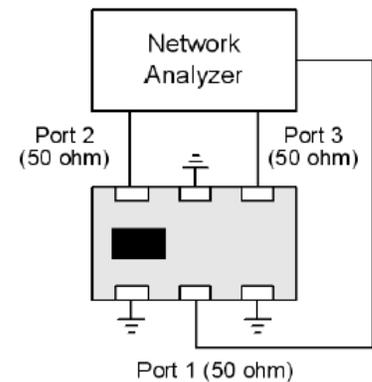


Terminal name	Function
P1	GND
P2	Common
P3	GND
P4	High band
P5	GND
P6	Low band

Recommended Land Pattern



Unit : mm



Test Instrument :
Agilent E5071C Network Analyzer or equivalent.

Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

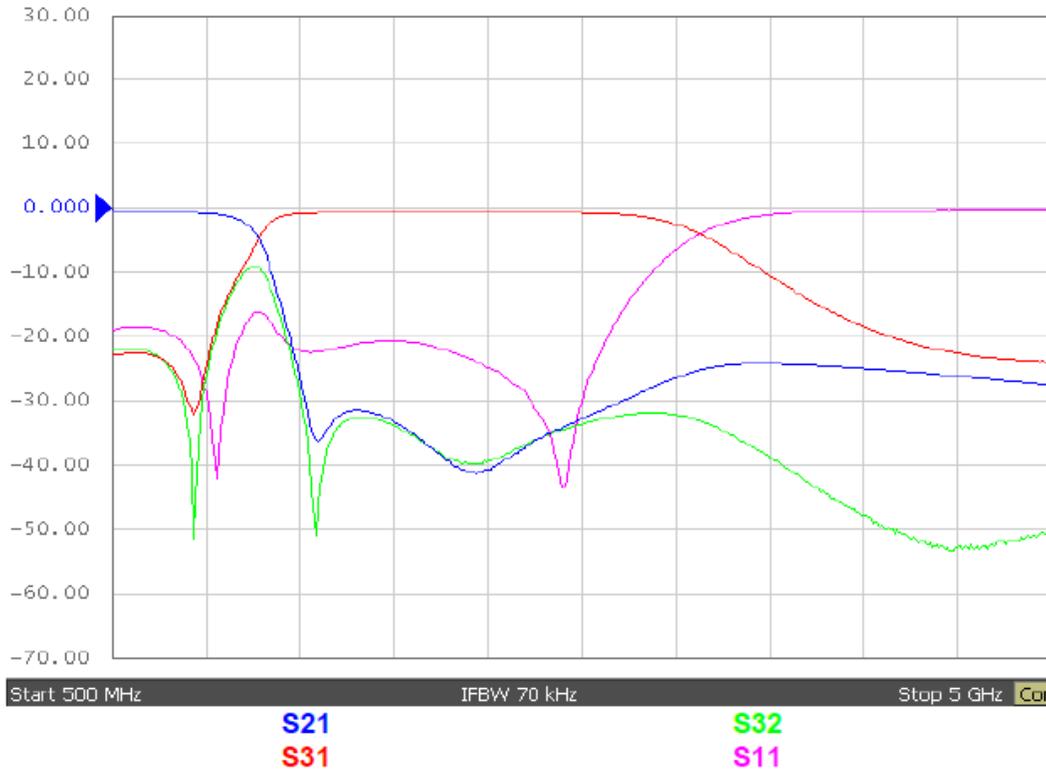
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ELECTRICAL PERFORMANCES



Test Instrument :
Agilent E5071C Network Analyzer
or equivalent.

Frequency Characteristics

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REVISION HISTORY

Revision	Date	Description
Version 1	Feb. 23, 2022	- New issue